MODIS IOT Weekly Report
Mission Operations Days: 2000/071 to 2000/077
March 10, 2000 20:00:00 GMT to March 17, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode
MODIS is in Science Mode
MODIS has no known Anomalies

Blackbody	On	Nominal
Calibration Electronics	On	Nominal
Control Processor	A On; B off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	On	Nominal
FIFO Memory	On	Nominal
Format Processor	On	Nominal
PC FPA	On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	On	Nominal
NIR	On	Nominal
SMIR	On	Nominal
LWIR	On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On, B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67	Nominal

This Week's Completed MODIS Activities:

Friday, March 10, 2000
070/20:11:00 – 20:22:49   Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                             8 Vcal steps of 1 DN,   Nstep of 22,22,22,10

070/21:39:23   Real-time - Set new gain values for bands 5, 14H, and 16
070/21:59:17   Real-time - Set Blackbody to 290K
070/22:14:29   ATC – OA15: SD/SDSM Open Double

Saturday, March 11, 2000
071/03:11:08   ATC – OA16: SD/SDSM Screened Double
071/08:07:46   ATC – OA16: SD/SDSM Screened Double
071/13:04:25   ATC – OA15: SD/SDSM Open Double
071/16:35:43 – 16:42:11   ATC – OA14:Sector Rotation for entire cavity (DCR Off)
                             Deltas of 0, 1776, 4711, 5643, & 6842
071/18:00:04   ATC – OA16: SD/SDSM Screened Double

Sunday, March 12, 2000
072/03:54:06   ATC – OA16: SD/SDSM Screened Double
072/08:50:44   ATC – OA15: SD/SDSM Open Double
072/14:29:58 – 14:41:48 Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                             8 Vcal steps of 1 DN, Nstep of 20,20,20,8
072/15:26:14   ATC – OA16: SD/SDSM Screened Double
072/15:39:45 – 15:52:23 Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                             8 Vcal steps of 1 DN, Nstep of 18,18,18,6
072/16:23:01 – 16:34:47 Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                             8 Vcal steps of 1 DN,   Nstep of 22,22,22,10
072/20:23:52 ATC – OA16: SD/SDSM Screened Double

Monday, March 13, 2000
073/01:19:29   ATC – OA16: SD/SDSM Screened Double
073/02:14:40   ATC – OA19: SRCA Full Radiometric
073/04:37:14   ATC – OA15: SD/SDSM Open Double
073/07:54:59   ATC – OA15: SD/SDSM Screened Double
073/11:12:44   ATC – OA15: SD/SDSM Screened Double
073/13:54:52 – 15:33:45   ATC – OA24: SRCA 10W Radiometric (Rad Feedback Mode)
073/20:30:23 – 22:09:15   ATC – OA24: SRCA 10W Radiometric (Constant Current
Mde)

Tuesday, March 14, 2000
074/00:23:45   ATC – OA15: SD/SDSM Open Double
074/03:05:53 – 04:44:45   ATC – OA25: SRCA 1W Radiometric
074/05:20:22   ATC – OA16: SD/SDSM Screened Double
074/16:52:30   ATC – OA16: SD/SDSM Screened Double
074/18:31:22   ATC – OA15: SD/SDSM Open Double
074/20:38:52   Drag Make-up Maneuver   22.777 seconds long
074/22:17:10   Real-time: Reset Band 5 & 16 gains to incorrect (launch) values
074/23:01:31   Real-time: Memory Dump of Table 4, PV Gains

Wednesday, March 15, 2000
075/00:59 – 01:10:42   Real-time: Several Itwk sweeps; Vdet =226
                                 Itwk = 70 through 250 by steps of 10
075/01:37:16 – 01:48:34   Real-time: Several Itwk sweeps; Vdet =225

	Itwk = 70 through 250 by steps of 10
075/02:36:34 – 02:48:07	Real-time: Several Itwk sweeps; Vdet =224
	Itwk = 70 through 250 by steps of 10
075/02:45:46	ATC – OA16: SD/SDSM Screened Double
075/03:23:05 – 03:34:35	Real-time: Several Itwk sweeps; Vdet =223
	Itwk = 70 through 250 by steps of 10
075/04:14:08 – 04:25:50	Real-time: Several Itwk sweeps; Vdet =222
	Itwk = 70 through 250 by steps of 10
075/05:28:40 – 05:40:11	Real-time: Several Itwk sweeps; Vdet =221
	Itwk = 70 through 250 by steps of 10
075/06:19:35 – 06:31:12	Real-time: Several Itwk sweeps; Vdet =220
	Itwk = 70 through 250 by steps of 10
075/07:10:51 – 07:22:25	Real-time: Several Itwk sweeps; Vdet =219
	Itwk = 70 through 250 by steps of 10
075/07:42:25	ATC – OA16: SD/SDSM Screened Double
075/08:47:54 – 08:59:31	Real-time: Several Itwk sweeps; Vdet =218
	Itwk = 70 through 250 by steps of 10
075/12:42:52	ATC – OA15: SD/SDSM Open Double
075/15:05:19 – 16:02:50	ATC – OA23: SRCA Full Spatial
075/19:14:36	ATC – OA16: SD/SDSM Screened Double

Thursday, March 16, 2000
076/07:00   ATC – Blackbody to 280K
076/12:00   ATC – Blackbody to 285K
076/15:00   ATC – Blackbody to 290K
076/15:00   Real-time – Set Blackbody duty cycle to 100%
076/17:00   ATC – Blackbody to 295K
076/18:45:43 Yaw Maneuver +15 deg (33 min, 54 sec)
076/19:00   ATC – Blackbody to 300K
076/20:24:35 Yaw Maneuver -15 deg (33 min, 54 sec)
076/20:49:41 Real-time – Blackbody to 33%
076/21:00   ATC – Blackbody to 270K
076/21:22:31 Real-time – Reset gain changes for bands 5 & 16 to correct launch values
076/21:36:46 Real-time – Ran MOD_MEM_HALT to clear memory transfer
076/22:10:18 Real-time – Dumped PV Gain Table

Friday, March 17, 2000
077/15:04:20 Real-time Set Blackbody to 290K

This Week's Scheduled MODIS Activities Not Completed:

076/21:27:04 Real-time – Failure during 1st dump attempt of gain table due to ground
                          system error.

Upcoming MODIS Events:

*SRCA activities are scheduled, but inhibited (so they will not execute) until further notice.

Friday, March 17, 2000
077/20:41:03   ATC – OA16: SD/SDSM Screened Double

Saturday, March 18, 2000
078/03:16:35   ATC – OA16: SD/SDSM Open Double
078/09:52:06   ATC – OA16: SD/SDSM Screened Double
078/16:27:38   ATC – OA16: SD/SDSM Screened Double
078/23:03:09   ATC – OA16: SD/SDSM Open Double

Sunday, March 19, 2000
079/05:38:41   ATC – OA16: SD/SDSM Screened Double
079/12:14:12   ATC – OA16: SD/SDSM Screened Double
079/18:49:44   ATC – OA16: SD/SDSM Open Double

Monday, March 20, 2000
080/01:25:15   ATC – OA16: SD/SDSM Screened Double
080/08:00:47   ATC – OA16: SD/SDSM Screened Double
080/14:36:18   ATC – OA16: SD/SDSM Open Double
080/21:11:50   ATC – OA16: SD/SDSM Screened Double

Tuesday, March 21, 2000
081/03:47:21   ATC – OA16: SD/SDSM Screened Double
081/10:22:53   ATC – OA16: SD/SDSM Open Double
081/15:00??   Real-time   Set Blackbody duty cycle to 100%
081/15:00   ATC – Blackbody to 315K
081/16:58:24   ATC – OA16: SD/SDSM Screened Double
081/22:00:00   ATC – Blackbody to 270K
081/22:15:58   Real-time   Set Blackbody duty cycle to 33%
081/23:33:56   ATC – OA16: SD/SDSM Screened Double

Wednesday, March 22, 2000
082/12:01:13   ATC – OA-23 SRCA Full Spatial
082/19:00:00   ATC – Blackbody to 290K
082/??   Real-time Ecal sweeps

Thursday, March 23, 2000
083/15:00??   Real-time   Set Blackbody duty cycle to 100%
083/15:00:00   ATC – Blackbody to 315K
083/22:00:00   ATC – Blackbody to 270K
083/22:00??   Real-time   Set Blackbody duty cycle to 33%

Friday, March 24, 2000
084/08:28:01   ATC – OA-22 SRCA Full Spectral Part 1
084/10:22:46   ATC – OA-22 SRCA Full Spectral Part 2
084/11:45:11   ATC – OA-22 SRCA Full Spectral Part 3

084/13:00   ATC – Blackbody to 290K
084/13:40:31 ATC – OA-22 SRCA Full Spectral Part 4
084/16:52:51 ATC – 1st Roll Manuever to view moon in space-view port (-19.5 deg)
                    Sector rotation to –3072, DCR off, Formatter Day rate
084/19:00??   Real-time Set SMIR Itwk / Vdet to ?? / ??
084/20:09:57 ATC – 2nd Roll Manuever to view moon in space-view port (-19.0 deg)
                    Sector rotation to –3072, DCR off, Formatter Day rate
084/21:00??   Real-time Set SMIR Itwk / Vdet to ?? / ??

Fri, March 24, 2000   - MODIS Roll Maneuver (-19 deg)
Tue, April 25, 2000   - MODIS Yaw Maneuvers
Wed, April 26, 2000 - MODIS Yaw Maneuvers
Thur, April 27, 2000 - Inclination Maneuver
Fri, April 28, 2000   - Post-inclination Drag Makeup Maneuver

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

The transition to normal operations continues as the FOT has begun running our morning status meeting as Project Leads begin the handover.

Limited Life Item Status:

SRCA 10W Lamp #1: 146.0 of 500 hours
SRCA 10W Lamp #2: 124.5 of 500 hours
SRCA 10W Lamp #3: 133.7 of 500 hours
SRCA 10W Lamp #4:   61.5 of 500 housr

SRCA 1W Lamp   #1: 545.5 of 4000 hours
SRCA 1W Lamp   #2: 276.3 of 4000 hours

Solar Diffuser Door: 1121 of 3022 Movements

Nadir Aperture Door: 530 of 1316 Movements
Space View Door: 436 of 1316 Movements